

## Calendar

### [Have a safe day!](#)

Monday, June 21  
11 a.m.

#### [Particle Astrophysics Seminar](#)

(NOTE TIME) - One West  
Speaker: Elisa Fenu,  
Université de Geneva  
Title: Primordial Magnetic  
Fields and Their Gravitational  
Waves Production  
2 p.m.

Accelerator Physics and  
Technology Seminar - (NOTE  
DATE, TIME, LOCATION)  
Racetrack, WH, 7X-Over  
Speaker: Alexei Grudiev,  
CERN

Title: CERN Progress in High-  
Gradient Investigations  
3:30 p.m.

DIRECTOR'S COFFEE  
BREAK - 2nd Flr X-Over  
4 p.m.

All Experimenters' Meeting -  
Curia II

Tuesday, June 22  
12 p.m.

#### [Summer Lecture Series](#) -

(NOTE LOCATION) Curia II  
Speaker: Julien Branlard,  
Fermilab

Title: Electrical Engineering  
3:30 p.m.

DIRECTOR'S COFFEE  
BREAK - 2nd Flr X-Over

THERE WILL BE NO  
ACCELERATOR PHYSICS  
AND TECHNOLOGY  
SEMINAR TODAY

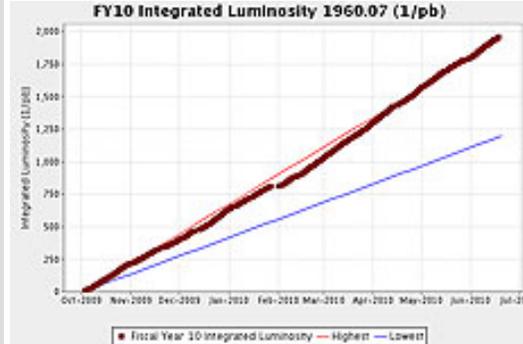
Click here for [NALCAL](#),  
a weekly calendar with  
links to additional  
information.

#### [Upcoming conferences](#)

## Campaigns

## Feature

### Tevatron achieves record integrated luminosity



The plot shows the cumulative integrated luminosity for FY10. Late last week, the Accelerator Complex reached a new integrated luminosity record, shown here. The red and blue lines depicted on the plot are upper and lower performance goals as set by the Department of Energy.

The Accelerator Complex achieved a record integrated luminosity of 1960 inverse picobarns, a cumulative achievement for this fiscal year.

"This year was the fastest we've ever gotten to 1900 and the highest we've ever achieved," said Cons Gattuso, Accelerator Division run coordinator.

Accelerator Division employees strategically lowered the peak luminosity in an attempt to gain more integrated luminosity. Gattuso attributes the record to that and solid, steady running despite mechanical problems. The hot weather can and has caused problems with various accelerator systems.

Accelerator Complex personnel hope to reach 2000 inverse picobarns this week and more than that by the beginning of July, which is when the division will begin ramping down energy and intensity in preparation for the mid-summer shutdown.

## ES&H Tips of the Week - Environment



### Gulf oil leak reinforces need for quality risk assessment



This transformer at MuCool contains 620 gallons of oil, and sits in a structure that would contain the entire volume in the event of a major leak. It is one of more than 350 oil-filled transformers on the Fermilab site, which together store over 300,000 gallons of oil.

The [Deepwater Horizon](#) oil spill is the worst environmental disaster in U.S. history. How could this happen? Why weren't the risks better understood? Why can't they stop the leak? What can we learn from this? Questions abound but answers are elusive.

Everyone can learn from this experience and take a closer look at how they assess and prepare for risks. At Fermilab, we go about our daily business of exploring the secrets of the universe and, while our answers are not 25,000 feet below sea level, there are risks to consider.

We assume the drillers', the owners of the Deepwater Horizon and the regulators who sought to minimize the risks didn't set out to dump more than 2 million barrels of oil into the Gulf. But this raises questions about whether they miscalculated a key risk component--namely, the probability of an accident scenario actually occurring--and/or underestimated the potential magnitude of the impact, which we now know was astronomically high and has had devastating consequences.

Fermilab has a policy of conducting hazard assessments on small and large projects alike to consider worst-case scenarios and how to prevent or mitigate them.

It's impossible to eliminate all risk or to completely guard against bad things

[Take Five](#)[Tune IT Up](#)[H1N1 Flu](#)

For information about H1N1, visit Fermilab's flu information [site](#).

[Weather](#)

 Chance of thunderstorms  
87°/64°

[Extended Forecast](#)  
[Weather at Fermilab](#)

[Current Security Status](#)[Secon Level 3](#)[Wilson Hall Cafe](#)

Monday, June 21  
- Breakfast: Croissant sandwich  
- French Quarter gumbo soup  
- French dip w/ horseradish cream  
- Santa Fe pork stew  
- Country baked chicken  
- Popcorn shrimp wrap  
- Assorted sliced pizza  
- Sweet and sour chicken w/ egg roll

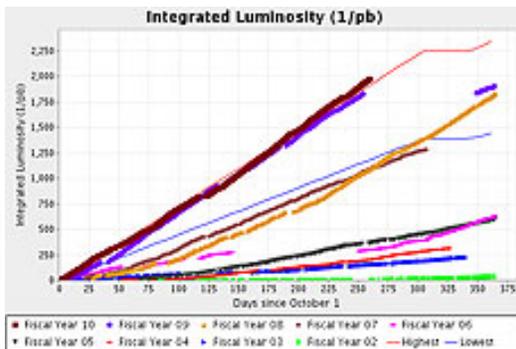
[Wilson Hall Cafe Menu](#)[Chez Leon](#)

Wednesday, June 23  
Lunch  
- 40-clove garlic chicken  
- Glazed baby carrots  
- Lemon rice pilaf  
- Banana cream puff w/ bittersweet chocolate sauce

Thursday, June 24  
Dinner  
- Closed

[Chez Leon Menu](#)

Call x3524 to make your reservation.



The plot shows the cumulative integrated luminosity for the past 10 fiscal years. This plot also shows the increase in luminosity that results from improvements made by the Accelerator Complex during the past eight years.

[Special Announcement](#)**Construction affects Wilson Hall west side access, parking**

Bike racks and motorcycle parking on the west side of the building will be removed and relocated to the east side beginning June 21 and continuing through early October.

The west entrance to the separate entrances to the mezzanine and the Medical Office also will be closed for a portion of next week. These short-term inconveniences are necessary to facilitate renovations and safety improvements to the west side of Wilson Hall.

[CERN Press Release](#)**CERN Council opens the door to greater integration**

At its 155th session today, the CERN Council strongly congratulated the Laboratory on the excellent performance of the LHC since its start-up for physics on 30 March this year. Council also opened the door to greater integration in particle physics when it unanimously adopted the recommendations of a working group set up in 2008 to examine the role of the Organization in the light of increasing globalization in particle physics.

The key points agreed at today's meeting are that:

- All states shall be eligible for Membership, irrespective of their geographical location;
- A new Associate Membership status is to be introduced to allow non-Member States to establish or intensify their institutional links with the Organization;
- Associate Membership shall also serve as the obligatory pre-stage to Membership;
- The existing Observer status will be phased

happening without shutting down all exploration and discovery. But whether we formally document a project risk assessment plan or prepare to carry out a simple task, we must seriously ask ourselves and methodically answer basic questions, such as "What could possibly go wrong?" and "What if it did?"

Environmental laws were written to assist in answering these questions. The concept is the same as Fermilab's successful 'Take Five' program - taking the time to seriously and honestly consider the potential consequences of actions and taking measures to avoid or minimize them. Recognizing when the risk is too great to proceed is difficult, but these actions are necessary to avoid problems, regardless of their scale.

-- Teri Dykhuis, Environmental Engineer/  
NEPA Compliance Coordinator, ESHS  
-- Rod Walton, Fermilab ecologist, FESS

[Safety Tip of the Week Archive](#)[Accelerator Update](#)

June 16-18

- Four stores provided ~41 hours of luminosity
- NuMI horn power supply's LCW leak fixed
- HP3DS repaired and brought back online
- Booster, MI and Recycler accessed

[Read the Current Accelerator Update](#)

[Read the Early Bird Report](#)

[View the Tevatron Luminosity Charts](#)

[Announcements](#)**Latest Announcements**

[Nominations requested for employee profiles](#)

[Day Camp payments due](#)

[Time to complete accomplishment reports](#)

[Web of Science citation database online trial](#)

[Deadline for The University of Chicago Tuition Remission Program - June 25](#)

[Adult water aerobics - Mondays](#)

[Adult swim lessons - Mondays](#)

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out for States, but retained for International Organizations;

- International co-operation agreements and protocols will be retained.

[Read more](#)[In the News](#)**Neutrino surprise emerges from MINOS**From *Physics World*, June 18, 2010

Researchers at Fermilab's MINOS experiment have announced a surprise result that could point to a fundamental difference between neutrinos and their anti particles. The findings, if confirmed by further experimental runs, may help physicists to explore some of the elemental differences between matter and anti-matter.

The MINOS experiment is designed to test the theory that neutrinos can change between types in a process known as neutrino "oscillation". When this idea was first muted in the 1950s it was controversial because it implies that neutrinos have mass, a feature that contradicts the Standard Model of particle physics. However, the theory has been supported by subsequent experiments, which have found the Sun to be producing fewer electron neutrinos than had been expected. It is also backed-up by an apparent shortfall in muon neutrinos produced by cosmic rays interacting in the Earth's atmosphere.

[Read more](#)[Argentine Tango, Wednesday, June 16 to 30](#)[Blood drive June 21 and 22](#)[Lecture series: Intermediate/Advanced Topics in C++ Programming](#)[Ask HR: 15th floor visits FESS - Site 38 on Tuesday, June 22](#)[Kyuki-Do Martial Arts classes begins today](#)[Ask HR: 15th floor visits Wilson Hall Atrium on Friday, June 25](#)[Ask HR: 15th floor visits TD - ICB Tuesday, June 29](#)[Free Webinar on "Retirement Planning for Women," June 30](#)[10,000 Steps-a-Day Walking program](#)[Fermilab Arts Series presents Corky Siegel and Chamber Blues - June 26](#)[Sign up for summer Science Adventures classes](#)[Introduction to LabVIEW course - July 13](#)[Embedded Design with LabVIEW FPGA and CompactRIO seminar - July 13](#)[Interaction Management Coaching Forum - July 27](#)[Get to know great inventors in Inventor's Workbench, a Science Adventure](#)[Submit an announcement](#)